CashFlow® Programming Module

CPM

Installation & User Guide

GB

mei™

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Warning!

This is a class A product. In domestic environments this product may cause radio interference in which case the user may be required to take adequate measures.

CashFlow® Programming Module (CPM)

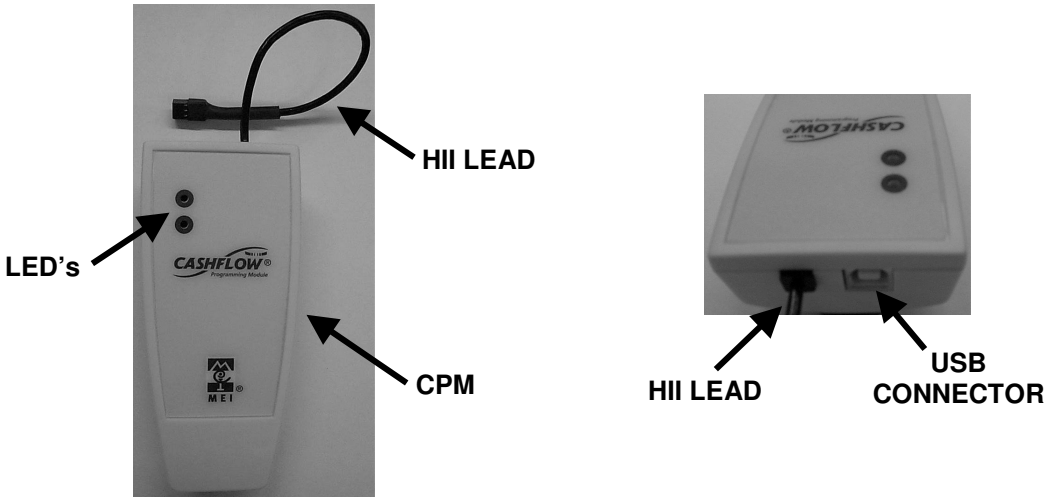
What is a CPM?

The CashFlow® Programming Module (CPM) is a small hand held device that allows products to be upgraded in the field rather than having to send products to a service depot or service centre.

To do this you will need the following tools.

1) Computer (PC)
2) Work Shop Module (WSM) software V3.02 or above
3) Data key (Dongle) plus credits
4) CPM
5) USB lead provided with the WSM
6) HII Adaptor
7) Application / Macros

CPM Identification



How does CPM work?

Upgrading your products in the field is achieved by first downloading WSM applications from your PC down the USB cable into the CPM memory. The CPM can then be connected to the product for the upgrade to be completed.

Credits from the dongle (attached to your PC) will need to be transferred on to the CPM before it can be used to upgrade a product. The number of credits deducted will depend on the type of application.

When all required applications have been downloaded into the CPM, you will then be ready to visit your machines and upgrade the products.

To Upgrade the product simply connect the six-way HII lead from the CPM into the 6-way service connector of the product. The LED's on the CPM gives a visual indication on the performance of the upgrade. (Refer to the LED Code section).

System Requirements

Machine

Before installing WSM, ensure that the machine (PC) on which WSM is to be installed meets the following specification:

- 233MHz Pentium II class processor, equivalent or higher (PIII recommended)
- 32Mb or more of RAM (Windows 95(OSR2 and above)/98/NT)
- 64Mb or more of RAM (Windows ME/2000) (Windows 2000 recommended)
- Hard Disk with at least 80 Mb of free space
- One free RS232 serial port (9-pin) for HII connections
- One Parallel port for MEI dongle (credit store)
- One free USB port (Windows 98/ME/2000)
- Clock speed 233 MHz or higher
- SVGA graphics card and SVGA monitor (minimum of 800 x 600 pixels and 256 colours)
- Recommended SVGA monitor with 1024 x 768 and 32bit colour
- Quad speed or higher CD ROM drive for CD install
- Microsoft compatible pointing device (e.g. mouse)

Operating System

WSM can be installed on any of the following Microsoft operating systems; however, there are some limitations.

Operating System	Limitations
Windows 95 (OSR2 and above)	**Will NOT support CPM products.**
Windows NT	**Will NOT support CPM products.**
Windows 98	None
Windows ME	None
Windows 2000	None.

Before Installing WSM Software

Upgrading from Previous Versions of WSM

Before installing WSM V3.02 all previous versions of WSM **MUST BE REMOVED FROM THE MACHINE.** If this is not done the new install may not complete correctly.

WSM V2.xx

The uninstall procedure is as follows:

1. Open the control panel (Start Menu->Settings->Control Panel).
2. Open "Add/Remove Programs"
3. Select "WSM" and click the "Add/Remove" button.

The software should then remove all of the WSM2 components. The software may ask if a shared component should be removed, if this happens you should select yes (or Yes to all).

Final Check (WSM 2 & 3)

Following this a check should be made to ensure that all components have been removed.
For Windows 95,98,ME machines:
Check that the following files DO NOT exist:

1. <Windows directory>\System\HIILib32.dll
2. <Windows directory>\System\HIILib32.vxd
3. <Program Files directory>\MEI\WSM\<all files & directories>

E.g.: For UK machines with Windows installed in the C:\Windows directory, the files would be:
C:\Windows\System\HIILib32.dll
C:\Windows\System\HIILib32.vxd
C:\Program Files\MEI\WSM

Germany: With Windows installed on drive C: in the Win directory the files would be:
C:\Win\System\HIILib32.dll
C:\Win\System\HIILib32.vxd
C:\Programme\MEI\WSM

For Windows NT and 2000 machines:

1. <Windows directory>\System32\HIILib32.dll
2. <Windows directory>\System32\drivers\HIILib32.vxd
3. <Program Files directory>\MEI\WSM\<all files & directories>

E.g.: For UK machines with Windows installed in the C:\WinNT directory, the files would be:
C:\WinNT\System32\HIILib32.dll
C:\WinNT\System32\drivers\HIILib32.sys
C:\Program Files\MEI\WSM

If any of these files (or the MEI\WSM directory) exist then delete them.

Now reboot the machine and it is ready for WSM V3.02 to be installed.

Installing WSM Software

Warning!

MEI will not be responsible for damage to a PC due to misuse or incorrect installation of this software.

Installing WSM V3.02

WSM V3.01 now uses new installation software. The installer is the new Microsoft standard and provides a safer installation mechanism. However, the new installer software must first be installed on the system before WSM can be installed. The WSM V3.02 handles this.

Non-Windows Installer Machines

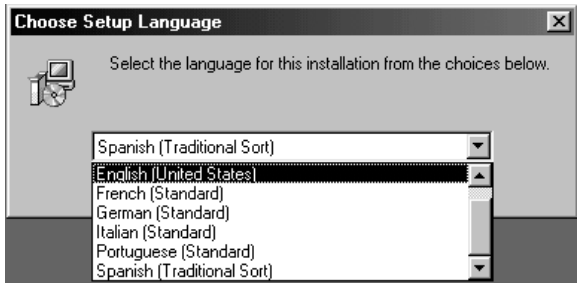
Insert the CD then select the language that you wish to install the software in. The "Windows Installer" software will then be installed and the machine rebooted. Once, the machine has restarted you may need to double click the CD icon in the "My Computer" folder.

In addition to the "Windows Installer" software the install may also upgrade some of the machines database components, if this occurs then the installer will perform an additional reset.

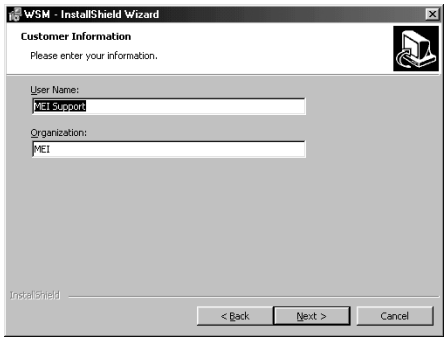
Now follow the instructions for "Windows Installer Machines".

Windows Installer Machines

Insert the CD then select the language that you wish to install the software in.
Accept the license agreement and select "Next".

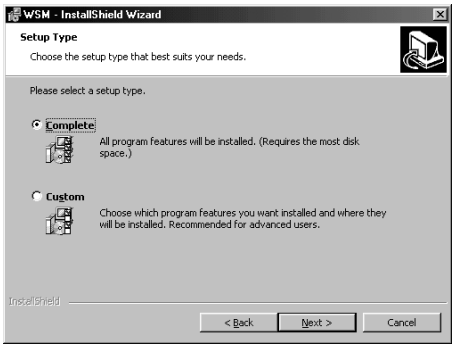


Enter the username and organisation details.
For networked machines, the option exists for installing the software for the above user or for all users of the machine.



NOTE: If "all users" is desired the software MUST be installed under an "Administrator Account". Following this select "Next".

Select "Complete" set-up type and click on the "Next" button.


WSM - InstallShield Wizard
Setup Type
Choose the setup type that best suits your needs.
Please select a setup type.
Complete
All program features will be installed. (Requires the most disk space.)
Custom
Choose which program features you want installed and where they will be installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

Select "Install" to start the installation process.

When the install has completed select "finish" and reboot the machine.

Installation Notes

Windows NT and Windows 95 Machines
A message box will appear during the install with the following title "MEI Driver Install Program" and the following message "This version of windows is not supported".
This is informing the user that Windows NT and 95 do not support CPM (due to limitations of the operating system). This error does not affect the installation of WSM.

Networked/ multi-user Machines
A warning may occur during the installation with the message:
"Warning 1909. Could not create shortcut MEI Workshop Module.lnk. Verify the destination folder exists and that you can access it". The resultant affect of this is that a "MEI Workshop Module" link will not be created in the start menu.

This is due to many Systems Departments assigning the Windows licence to a phantom user account. This error does not affect the installation of WSM.

Windows NT/2000
A message box may appear stating that the installation was not able to register a component, as "HIILib32" could not be located. This does not affect the installation of the software, simply ignore this message and continue with the installation.

Installing the USB Drivers
To be able to use the USB port on the PC you must install the USB drivers found on the installation CD.

1. During the installation, Windows will detect the need for a USB driver; a prompt to install it will be displayed. Select “Yes”.

2. Click the “HAVE DISK” button. (The USB driver required will be found on the installation CD).

3. Select the CD directory and choose the only driver listed and click OK to run.

4. Reset the PC after the installation to ensure the DLL files and Registry settings are updated.

Connection and Set-up

1. Connect the HII Adapter to the RS232 Serial COM Port of the PC.

2. Connect the Dongle (Data Key) to the PC Parallel Port.
   If there is another Device on the Parallel Port, firstly connect the Dongle into the PC then connect the other devices into the dongle. (E.g. Printers, Scanners etc).

3. Connect the 6-10 Way FIB lead into the HII Adapter.

4. Power up the product and connect the HII Loom provided to it.

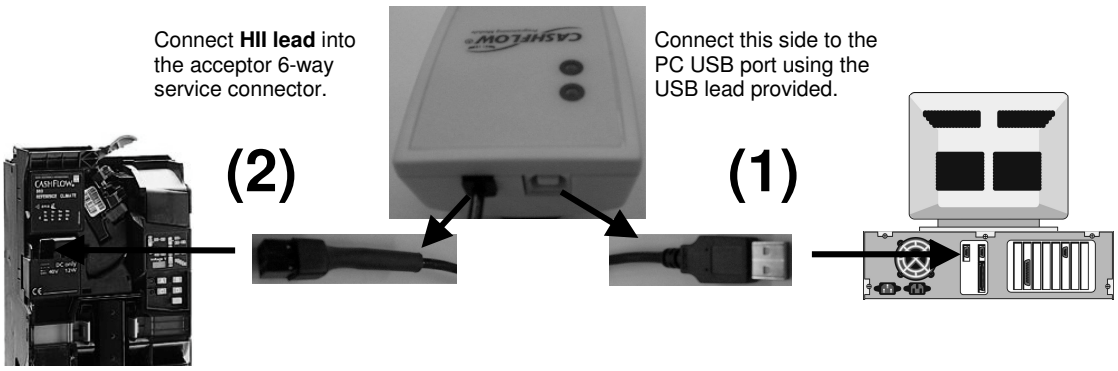
You need to provide suitable power to the product.

Connecting the CPM to the PC

The CPM has 2 connection points.

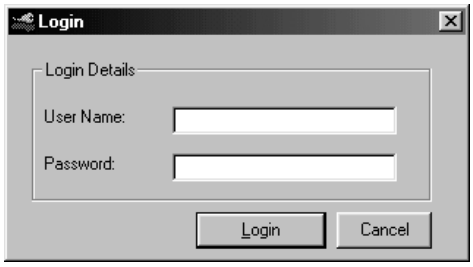
Connector (1) allows you to connect the CPM directly to the computers Universal Serial Bus (USB) port. Do this by plugging one end of the USB lead in to the CPM and connecting the other end to the PC. You now have enabled communication between the PC and the CPM.

Connector (2) is a permanently fixed (HII) lead that allows the CPM to be connected into the product's 6-way service connector.

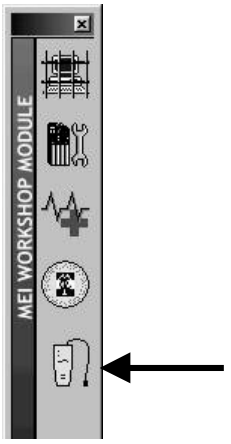

Connect **HII lead** into the acceptor 6-way service connector.
(2)
Connect this side to the PC USB port using the USB lead provided.
(1)

Starting WSM Software

1. Power Up the PC and login to Windows (if required).
2. From the Desktop click on to the MEI Logo
3. The following Login window will be displayed and you must enter the User Name and Password.



The Default User Name is ***admin*** and the Default Password is ***admin***
Once the login has been accepted the following Launcher Bar will start.



To launch the CPM manager program
Click the CPM Button.

The Launcher Bar Buttons:

Admin Manager – Clicking this button takes you to the Administration Function.

Configuration – Clicking this button starts the Product Configuration Function.

Diagnostics – Clicking this button starts the Product Diagnostic Function.

Credit Manager – Clicking this button lets you check and manage the credits on your dongle.

CPM – This takes you to the CPM manager program.

Launcher Position:

The Launcher Bar on the desktop can be moved and re-sized. When you have modified it you will need to logout and login again before the new position and size can be seen.

Changing WSM Software Language:

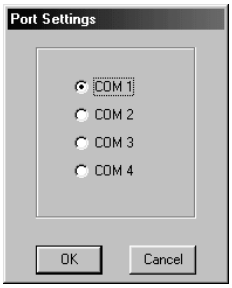
If you require the WSM software to use your local language follow the procedure below.

1. Click on the Admin Manager button to enter the Administration Screen.
2. Click Language.
3. Select required language.

Changing & Setting the RS232 COM port:

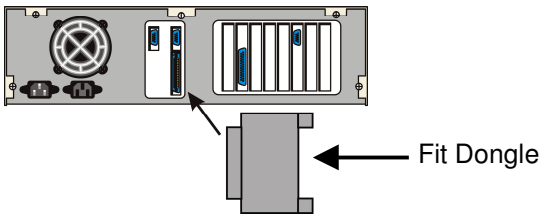
The CPM uses the USB port on the PC for communication. When the CPM is connected to the PC it is automatically detected.
If you find that there is no communication between the CPM and PC, it may be that you have fitted the HII lead connector (RS232) to the wrong port on the PC. You can correct this by following this procedure.

1. Click on the Admin Manager button to enter the Administration Screen.
2. Click Tools.
3. Select Configuration and Diagnostics Tool Settings.
4. Select the required COM port.



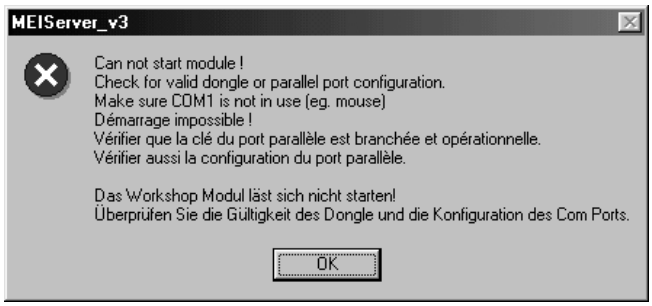
Connecting the Dongle

When you get your WSM pack, you will find a Dongle.
The dongle has to be connected to the back of the PC's (parallel port) to allow full functionality.



If the Dongle is not fitted or removed, limited functionality will be available and therefore no changes can be made to the product.

The following message may be displayed if the dongle is not connected to the PC. If you get this message Click OK.

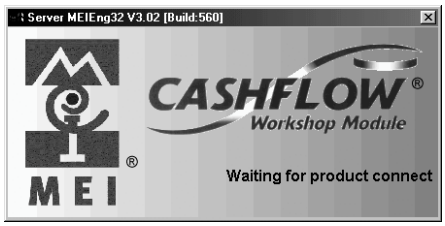

MEIServer_v3
Can not start module !
Check for valid dongle or parallel port configuration.
Make sure COM1 is not in use (eg. mouse)
Démarrage impossible !
Vérifier que la clé du port parallèle est branchée et opérationnelle.
Vérifier aussi la configuration du port parallèle.
Das Workshop Modul läst sich nicht starten!
Überprüfen Sie die Gültigkeit des Dongle und die Konfiguration des Com Ports.
OK

Note: - For added security, If a Dongle is not fitted, product configuration functions are disabled.

Note: - A Dongle is not required for Flash Download and Diagnostics.

Starting Configuration Module:

To start the Configuration module, Click on the Configuration Button.
Connect the HII loom into the discriminator and wait until the information is uploaded to the PC. The Configuration module screen will be displayed.



If there is a problem with communication this message will be displayed on the screen.
Check the COM port settings have been set correctly.
Check the HII loom is connected correctly.
Check the product is powered ON.

Starting the Diagnostics Module:

To start the Diagnostics module, Click on the Diagnostic Button.
Connect the HII loom into the discriminator and wait until the information is uploaded to the PC. The diagnostics module screen will be displayed and you can run the diagnostic wizard to test the product.

Installation Trouble Shooting & Help

If you are having any trouble with the installation please read the following section.

Manual Start Installation:

The CD has an Auto run function. On some PC this functionality is disabled. In this event you will need to start the Install Process manually.

1. Insert the CD into the CD drive.
2. Go to Start, then RUN
3. Click on Browse
4. Find the CD Drive and select SETUP.EXE
5. Click OK to start Install

OR

1. Insert the CD into the CD drive.
2. Go to My Computer
3. Double click on CD Drive icon
4. Double click on SETUP.EXE icon

Cannot Overwrite File/Update File:

When installing software on the PC for the first time, the software may find some duplicate DLL files (resident in the windows \ systems directory) that may need to be overwritten, If any DLL files require updating a message will be displayed on the screen requesting you to accept this. Click the YES button to overwrite the files to a more recent version.

Forced Uninstall:

Certain configurations may have problems uninstalling and therefore the following procedure should be used to uninstall the software.

1. Go to My Computer
2. Double Click on C:
3. Double Click on Program Files
4. Double Click on MEI
5. Select all directories (Do not select the file called **Uninst.isu**)
6. Press Delete Button
7. Then follow the normal Uninstall Process

Installing the USB Drivers

To be able to use the USB port on the PC you must install the USB drivers found on the installation CD.

1. During the installation, Windows will detect the need for a USB driver; a prompt to install it will be displayed. Select “Yes”.

2. Click the “HAVE DISK” button. (The USB driver required will be found on the installation CD).

3. Select the CD directory and choose the only driver listed and click OK to run.

Reset the PC after the installation to ensure the DLL files and Registry settings are updated.

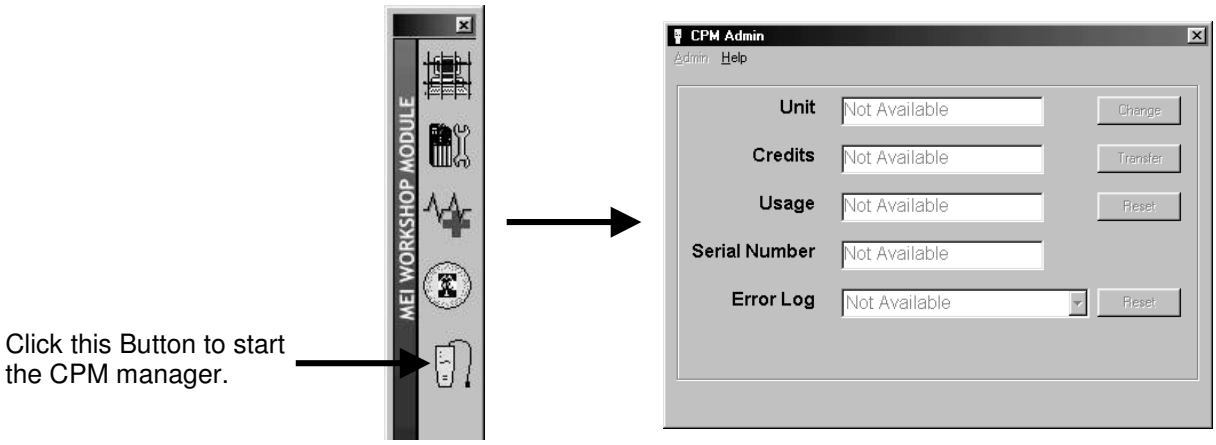
Getting Started

Once you have completed a successful installation of the WSM V3.02 software and you have connected the Dongle and CPM leads required to the PC, you can then start to use the CPM manager to transfer credits and applications from your PC to the CPM.

The following section explains how you can use the CPM manager.

Starting CPM Manager

Click on to the CPM icon on the Launcher bar. The CPM Admin screen will be displayed.



The CPM Admin screen shows the following information:

- **Name** - User generated unit name.
- **Credits** - Number of available credits remaining in the CPM.
- **Usage** - The number of times the CPM has been powered up by the PC or product.
- **Serial number** - Serial number of the CPM.
- **Error Log** - Displays the last ten errors reported.

Note: - When the CPM has been detected the WSM will check the CPM firmware (software revision) is up to date. If the CPM firmware is out of date, WSM will automatically run the "Firmware Update program". (Refer to Firmware Update section).

Error Log

Here is a list of errors that may be reported.

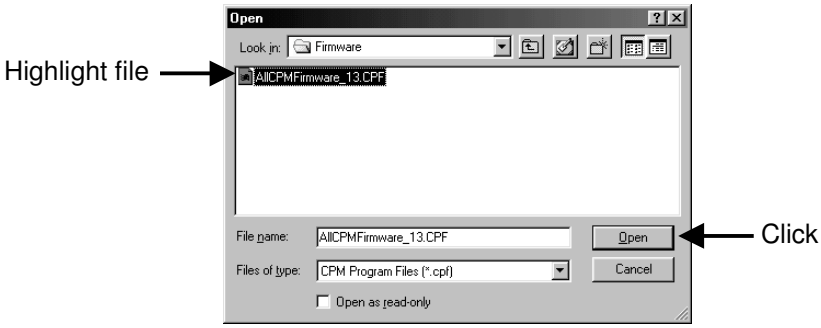
Error Description	Comments/Action
Insufficient Credit	No credit in CPM / Transfer more credits
Communications error	CPM not communicating with product / Check connected leads, product power, product faulty.
Invalid product (i.e.)	Application for product is not found in the CPM / Load correct application.
Product not recognised	Unknown product connected / Application error or product faulty.
Invalid signature version	Unable to update the coin channels / Application error or product faulty
Block relocation failed	Unable to update product / Faulty application or product.
Windows generation failed	Application Error / Generate new application.
Invalid memory or configuration item write	Application Error / Generate new application.

Firmware Update

The CPM firmware is checked automatically every time it is connected to the PC so that it is kept up to date with the WSM software.

If the CPM requires a firmware update the following screen message will be displayed.
The firmware directory screen will automatically open and the available application will be listed.

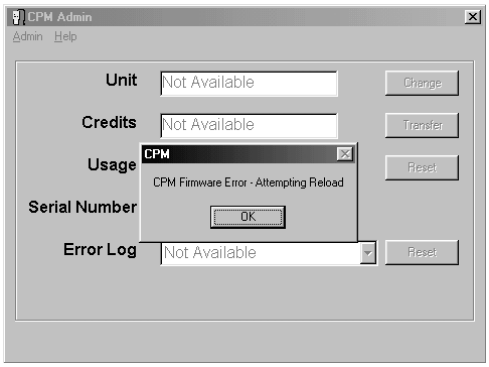
Highlight the firmware application and click open.
Firmware upgrade will now begin to download in to the CPM.



Note: - To manually update the firmware, you can access the **Firmware Update** menu by selecting **Admin, Utilities** from the CPM Admin screen.

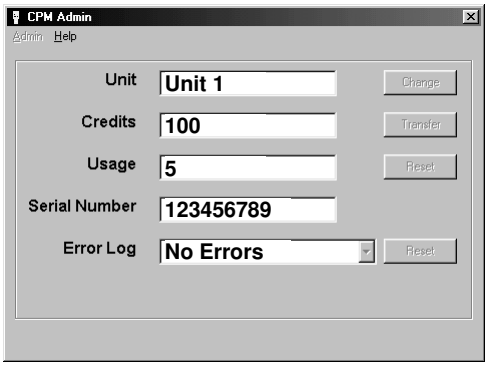
Firmware Download Error

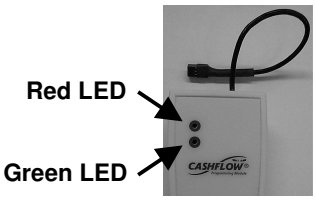
If there is a fault downloading the firmware in to the CPM a message will be displayed.
Click OK to restart the download.



Powering the CPM ON & OFF

The power for the CPM comes from the PC's USB Comm port.
Connect the USB lead from the PC into the CPM connector.
The Green LED will come ON.
The Admin screen will display the information stored in the CPM.

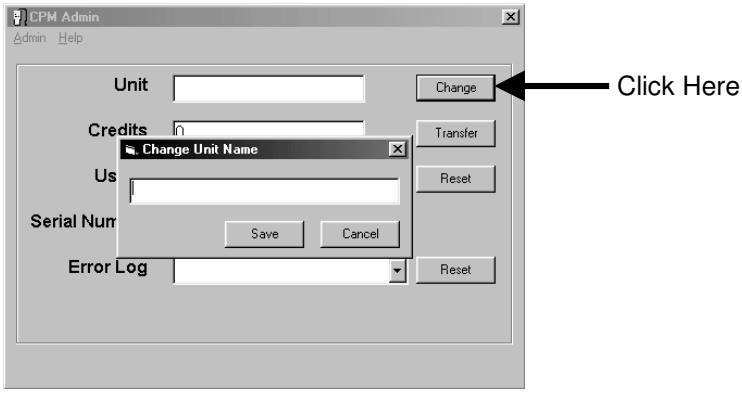




To remove power to the CPM, disconnect the USB lead.

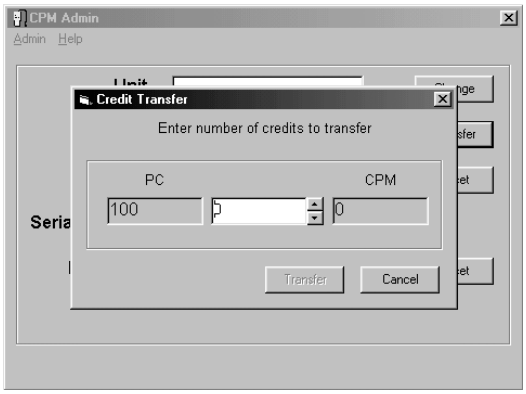
Changing the name of the CPM

To change the name of the CPM, Click the Change button. The “Change Unit Name” dialogue box will be launched.
Type your details in the box and click Save to end.



Transferring Credits to the CPM

Credits from the dongle (connected to the PC) can be transferred directly in to the CPM.
To do this, click the Transfer button to launch the Credit Transfer dialogue box.



This dialogue box has 3 text boxes fields.

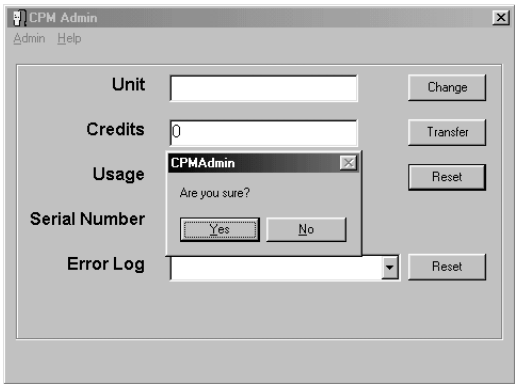
PC = Displays the number of credits in the dongle.
CPM = Displays the number of credits in the CPM.

The middle box allows you to enter the number of credits that you want to transfer. Type in or use the arrow buttons to equal the number of credits required transferring. Click the Transfer button when done.

NOTE: - You cannot transfer credits back to the dongle from the CPM.

Resetting the Usage Counter

The usage counter monitors the number of times the CPM has been connected to either the PC or the product.
To clear this number displayed in the usage box
Click the Reset button and then select Yes to reset the count to zero.

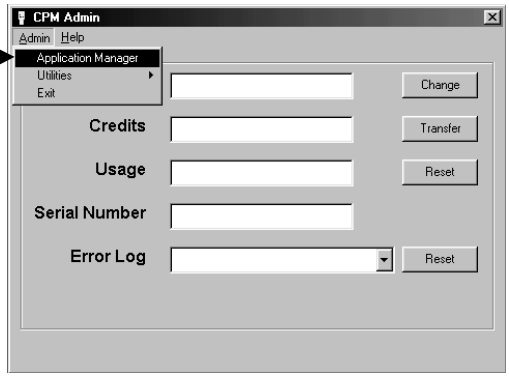


Launching Application Manager

The Application Manager can be started in the following way.
Click on to the CPM icon on the launcher Bar and connect the USB lead to the CPM.

From the CPM Admin screen, click **Admin** on the title bar, then application manager from the drop-down list.

Click Here

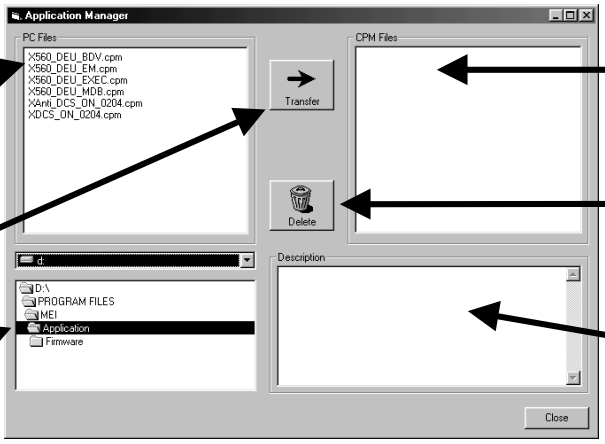


The following screen will be displayed.

Any files displayed in this box are applications that are stored in the PC. Only files ending with (**.cpm**) can be transferred to the CPM

To transfer files to the CPM click this button

This box displays the directory tree on the PC.



The Files that have been transferred into the CPM are shown in this box.

To delete files from the CPM click this button.

This box gives details about the highlighted application.

Transferring Files to the CPM

The PC Files box shows all applications in the directory. Any files with the extension **.cpm** can be transferred from the PC directory in to the CPM.

To transfer an application to the CPM, highlight the file required from the PC files box (extension **.cpm**) then click the Transfer button. The selected file will now be displayed in the CPM files box.

Managing the Files

When a file in either the PC or CPM list is highlighted, full details are displayed in the description text box.

When a file in the CPM list box is highlighted, the Delete button will be enabled, allowing files to be removed from the CPM.

When a file in the PC list box is highlighted, the Transfer button will be highlighted, allowing files to be copied to the CPM.

If a file of the same type already exists of the CPM, an error message will be displayed and the user must either abort the operation or delete the duplicate file on the CPM.

CPM File Specifications

CPM Memory Management

Each CPM has a maximum internal memory size of 1MB. This means that you can do the following.

- You can store up to a maximum of 30-CPM applications. (Each application = approx. 10Kb).
- You can store 1 Flash applications (Each application = approx. 0.5Mb).
- In addition, you can transfer a maximum of 10,000 credits.

Types of Application

The 3 types of application that can be transferred into a CPM are: -

- Flash Memory Software Upgrade Application
- Specific Application - Coinset / Tube Payout Applications
- General Application - Full Profile Applications

Flash Application

The flash application allows CF69x product software revision to be upgraded.
If a CPM has a flash application stored in it and the CPM is connected to CF69x product this application will be downloaded first. Specific and General application will be dealt with there after.

Note: - This product software upgrade is irreversible with the CPM. To go back a software revision you need to use WSM.

Specific Applications

A specific application allows changes to be made only to a specific coin-mechanism.
E.g. you may have a CF560 executive I/F changegiver with 1c, 2c, 5c & 10c Euro payout any other coin-mechanism connected to the CPM that is not to this configuration will not be upgraded.

General Application

A General application allows changes to be made to a product group.
E.g. If you wanted to change the Coinset and the Payout on all your CashFlow® changegivers you would need to have a General application stored in the CPM.

Understanding CPM file Management

On any one CPM, you can have **one "Flash" application**, **one "General" application** for each product group and **one "Specific" application** for each product. These are as follows.

Product Groups / General	Products / Specific
CF1xx	CF115/126/129/130
CF3xx	CF330 CF340 (1 player) CF340 (4 player) CF350 CF350Multi-Price
CF4xx	CF420/430/44/450
CF5xx	CF5xx MDB CF5xx Exec CF5xx BDV CF5xx Micro-mech. CF5xx VCCS
CF6xx	CF6xx

Application Download Priority

Because the CPM can store 3 types of application it is important to know which application will be downloaded into the product.
Example: - If the CPM has one of each application stored in it, the priority of the download will be as follows: -

- **Flash** Application – 1st file type downloaded. Has up most priority over any other application.
- **Specific** Application – 2nd file type downloaded.
- **General** Application – 3rd file type downloaded.

However, if the CPM has one General application and two Specific applications the CPM (when connected to the product) will compare the product with the application stored.
If the CPM finds a match for a Specific application it will download it to the product.
If there is no match for a Specific the General application will be downloaded, provided the product group type matches.

Note: - Each time an application is successfully downloaded into the product credits will be deducted. Each application can be downloaded as many times as needed provided there are enough credits in the CPM.

Examples 1

For Example: - If you have 2 CPM's, you can load the following types of applications.

CPM #1 could contain these Applications:

1. A Coinset Application for all 5xx changers (this is a **General** application for this product group)
2. New Configuration for a 560 Executive changegiver (this is a **Specific** application for this product)
3. New Configuration for a 560 MDB changegiver (this is a **Specific** application for this product)
4. New Configuration for a 560 BDV changegiver (this is also a **Specific** application for this product)

- If you connect the CPM into a 560 Executive, the CPM would download the **Specific** application.
- If you plugged the CPM into a 560 VCCS, the CPM would download the **General** application.

NOTE: - Specific Applications have priority over General Applications.

Examples 2

CPM #2 could contain these Applications:

1. New configuration for a 560 Executive which has tubes 1F, 2F, 2F, 2F (**Specific** application)
2. New configuration for a 560 Executive which has tubes 1F, 50c, 50c, 2F (**Specific** application)
3. New configuration for a 560 MDB which has tubes 1F, 2F, 2F, 2F (**Specific** application)

- When the CPM is connected into a 560 Exec, this CPM would check the tubes of the product before downloading the correct application.

This means that before you can create the application (macro) with WSM, you need to know what tube configuration is used in the vending machines.
You may need to create a separate application for every variant by connecting to the relevant changer type to generate the macros).

Note: - If you wanted to update the entire field base to one configuration, regardless of existing cassettes, you would need a General Application from MEI.
This could be (for example) an application to configure the Euro cassette relevant to that country.

Launching Utilities Manager

Utilities Menu

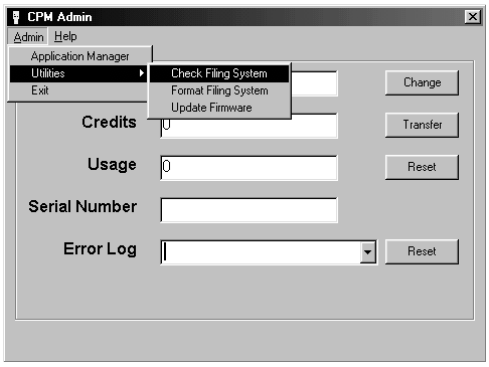
The utility menu allows you to update the firmware of the CPM and also check and format the internal memory.

Check Filing System

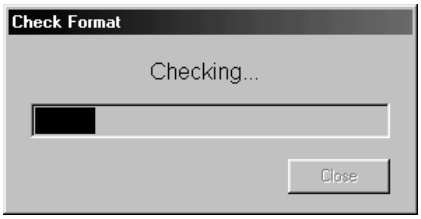
This allows you to check the condition of the CPM memory. Look at this operation as the check disk program on a PC. When using this all files in the CPM will still be available.

To check the filling system, connect the CPM to the PC.

From the CPM Admin screen, Click **Admin** on the title bar, then select **Utilities** followed **by Check Filling System**.



A message will be displayed showing the format progress.

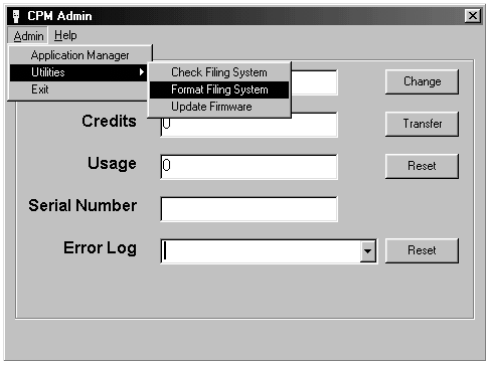


Format Filing System

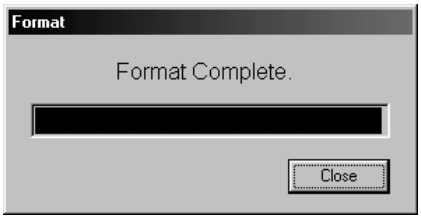
This option will format the CPM memory. (**All files stored will be erased**).

To **Format** the filling system, connect the CPM to the PC.

From the CPM Admin screen, Click **Admin** on the title bar, then select **Utilities** followed **by Format Filling System**.



A message will be displayed showing the format progress until the format completes.

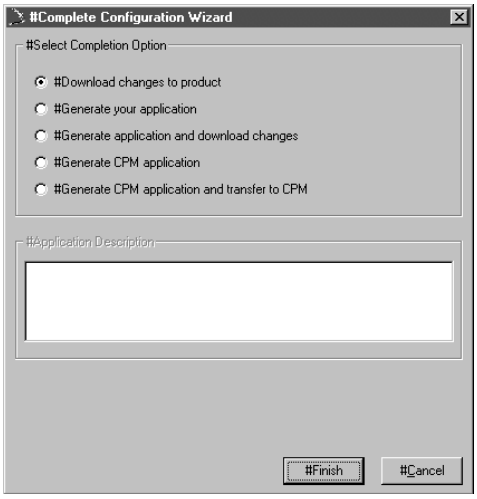


WSM Configuration Wizard Tool

The WSM configuration section has a built in wizard tool that helps you generate macros (Applications).
You can access the configuration wizard section by clicking the configuration button on the power bar.

Click this Button to start
the Configuration section.

When the main menu appears click onto the Wizard Icon or Macro button. This will take you through the wizard process. Follow the on screen information until the following screen is displayed.



Choose one of the following options

1. Download changes to product - (modifications will update the product immediately)
2. Generate your application - (save the application on disk or preferred directory)
3. Generate applications and download changes - (do both the above)
4. Generate CPM application - (lets you create the application in to a CPM format e.g. (**.cpm**)
5. Generate CPM application and transfer to CPM - (allows transfer of application on to CPM and also stores the file in the application directory for future use).

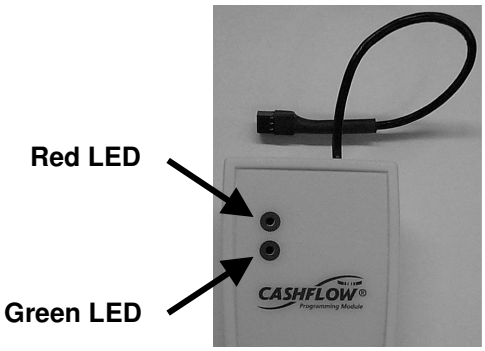
Upgrading Products with the CPM

Once the required files have been transferred into the CPM you can take the CPM to the machines requiring the upgrade.
To do this, follow these steps.

1. Connect the CPM HII lead to the acceptor.
2. Wait until the download has completed. Both Green & Red LED's will be ON.
3. Remove the HII lead from the product.

LED Codes

The CPM uses 2 LED's that give you a clear indication on the status of both the CPM and the upgrade. The following table explains these.



LED INDICATIONS		
Green LED	**Red LED**	**Explanation**
ON	OFF	Power is present on the CPM
ON	Flashing	CPM Active
Green & Red Alternating		No files found in the CPM
Flashing	OFF	No Credits available in the CPM
ON	Flashing x 1	Product Error
ON	Flashing x 2	Internal CPM Error
ON	Flashing x 3	Application File error
ON	ON	Upgrade Completed Successfully

Please NOTE:-
To ensure a successful upgrade, it is advisable NOT to Disconnect the HII lead from the product until the programming has completed.

When download is complete, both the LED's on the CPM will remain lit.